Loving music

Master Innovation

User manual (set-up)

Clearaudio Electronic® GmbH Hi-Fi Components
Spardorfer Str. 150 ● D-91054 Erlangen ● Germany ● Tel +49 9131/40 300 100 ● Fax +49 9131/40300119
www.clearaudio.de ● www.analogshop.de ● info@clearaudio.de ● Copyright Clearaudio© 2014

Version 1.4_22.08.14_E

Dear Clearaudio customer,

Congratulations on your purchase of the Master Innovation turntable, a world class turntable handmade in Germany by Clearaudio Electronic GmbH.

The Master Innovation's state-of-the-art combination of a no-contact magnetic drive, frictionless Ceramic Magnetic Bearing and self-regulating, sensor-controlled Optical Speed Control guarantees incredible pitch stability and freedom from noise leading to unbelievably realistic musical reproduction.

Its resonance minimizing chassis construction comprises four layers of a complex 'sandwich' of aluminium – Panzerholz bullet-proof wood – aluminium, and includes provision for up to three tonearms, allowing for complete flexibility of tonearm and cartridge.

Please note that this instruction manual contains a brief overview to enable quick and easy set-up. A fuller instruction manual will be sent out in due course.

We wish you a great deal of musical enjoyment with your new Clearaudio Master Innovation turntable.

Clearaudio Electronic GmbH

This section must be read before any connection is made to the mains supply.

WARNING

Do not expose your turntable to rain or humidity.
Do not handle mains leads with wet hands.
Do not place or insert anything into the equipment or through the ventilation holes.
No naked flame sources, such as lighted candles, should be placed on the equipment.

CE-MARKING

CE The Clearaudio Master Innovation meets the regulations concerning electromagnetic disturbance (EMC) and low-voltage appliances.

EQUIPMENT MAINS POWER SETTING

Your Clearaudio product has been prepared to comply with the household power and safety requirements that exist in your area. This product can be connected to 230 V or 110 V AC (50 Hz and 60 Hz).

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- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- any relevant recent legal regulations.

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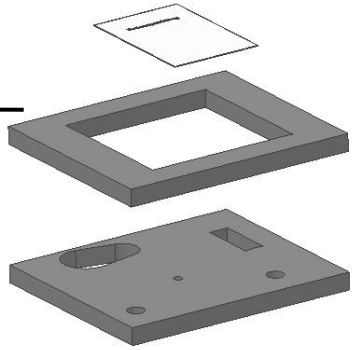
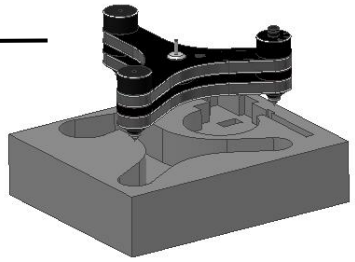
1. Packing overview

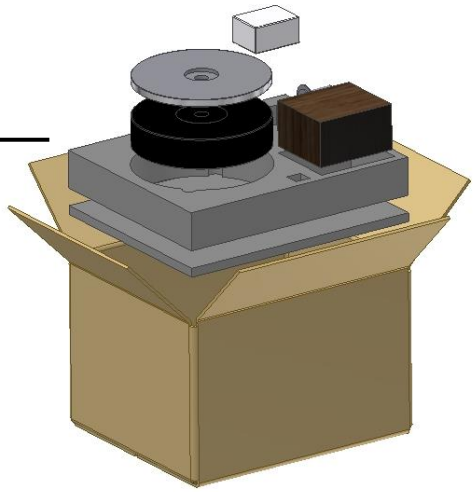
Accessories, user manual, warranty card, Clearaudio quality card, Stroboscope Test Record



Master Innovation turntable chassis including mounted lower bearing part and integrated motor unit; optional tonearm



Stainless steel subplatter with scale ring, Delrin or acrylic platter; optional power supply; cartridge; drive bearing



Carton 2 of 3: pre-mounted drive unit

Carton 3 of 3 (not pictured): stainless steel subplatter and platter

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2. Parts list

Clearaudio's special secure packaging for your Master Innovation turntable ensures safe transportation. Please keep this original packaging, in case you need to transport or ship the turntable at any point in the future.

Clearaudio Master Innovation parts list:

1

2

3

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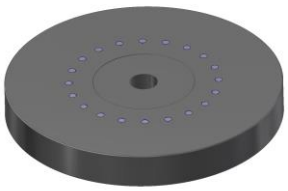

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1.	Drive unit	2.	Top unit with pre-mounted tonearm base (carton 2 of 3)
3.	Stainless steel sub-platter	4.	Delrin or acrylic turntable platter
5.	Drive bearing with ceramic ball	6.	Power supply
7.	3 x flat pads		

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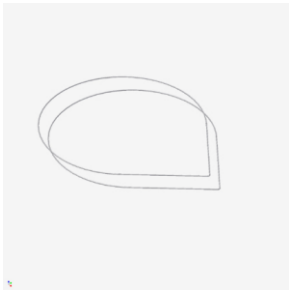

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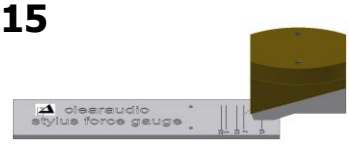

16

8.	1 pair of white gloves	9.	Grounding wire (to connect to the underside of the bearing part)
10.	Level gauge for turntable alignment	11.	2 drive belts
12.	3 allen keys; sizes: # 2 (for optional Universal tonearm) /# 3 / # 7	13.	Precision screwdriver
14.	Bearing oil for occasional use	15.	**Clearaudio** Smart Stylus Gauge
16.	**Clearaudio** Stroboscope Test Record (Art. No. AC038) to adjust the exact speed	17.	Not shown: User manual, warranty card, **Clearaudio** quality certificate card, sales return paper
18.	Not shown: stainless steel subplatter and platter (carton 3 of 3)	19.	

IMPORTANT NOTICE: Please double check the tightness of all bolts, hardware and mounting pods, as temperature fluctuations during transit may have caused the hardware to become loose.

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3. Installation and set-up

The set-up of the Master Innovation turntable is easy as the turntable chassis is pre-assembled and has been tested at the factory.

Please use the white gloves enclosed in order to avoid scratches or unwanted fingerprints (platter).

The Master Innovation turntable requires a set-up space of at least 18.90 x 19.29 inches.

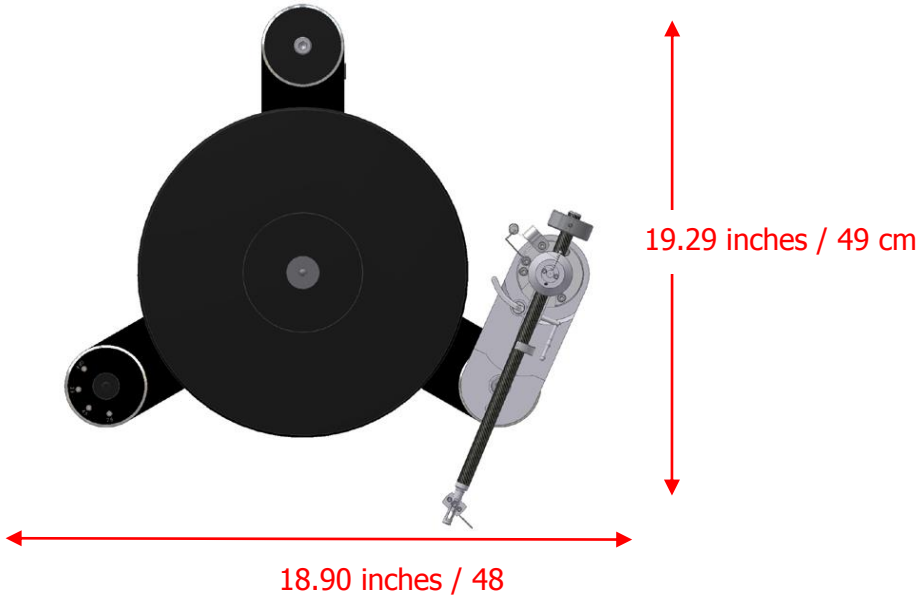

Image 1: Required set-up space

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Carton 1 of 3:

1)
First, take out the three black flat pads from the accessory bag. Place these flat pads on your hi-fi rack or another suitable base, where the final position of your Master Innovation turntable will be.

2)
Then take the Master Innovation turntable body (drive unit) from the next packaging layer and place the turntable's spikes onto the flat pads.

Image 2: Master Innovation drive unit

3)
To avoid humming noises it may be necessary to ground the bearing. To do so, plug the ground cable provided into the hole in the bearing fixing bolt on the underside of the turntable.

Image 3: Grounding the bearing

4)
Remove the protective security tape from the bearing housing. Place two drops of synthetic bearing oil onto the ceramic bearing shaft (provided, and also available at www.analogshop.de).

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5)
Take the drive bearing out of the box. Please remove the bearing protection film carefully. Carefully place the bearing onto the bearing axis.

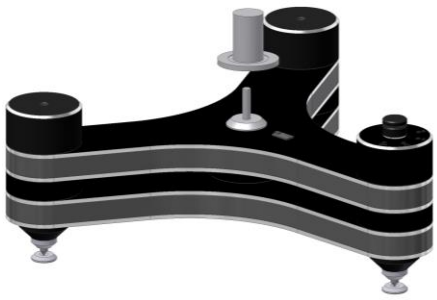

Image 4a: Setting-up the bearing

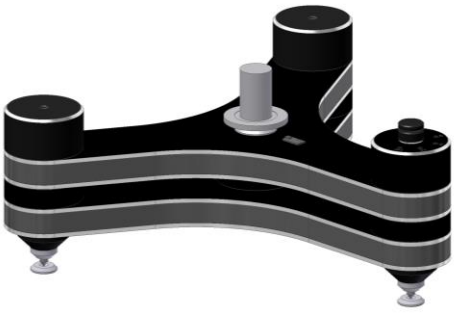

Image 4b: Setting-up the bearing

6)
Remove the protection film from the sensor mounted on the turntable chassis. Please do so extremely carefully to avoid introducing any dirt or scratches.

Carefully take the stainless steel platter out of the box, using both hands. Remove the protection film from the scale ring on the lower side of the turntable. The lower platter side with the scale ring must be face down when placing it on the bearing.
Again, please remove the lamination extremely carefully to avoid introducing any dirt or scratches.

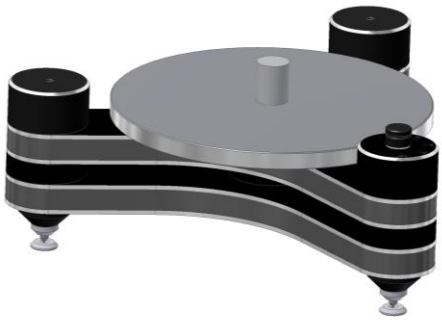

Image 5: Montage of the sub-platter with scale ring

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7)
Take the drive platter out of the box and remove the protective film. Using both hands, place the drive unit platter onto the bearing, so that the magnets are showing on the top. Please be very careful.

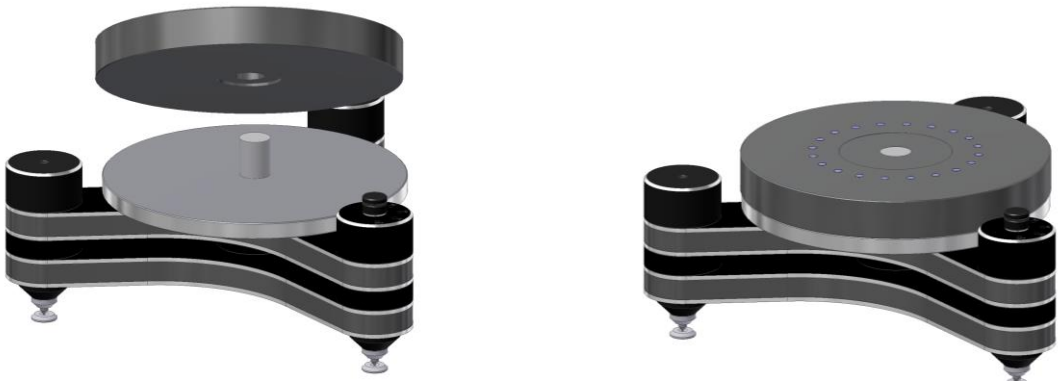

Image 6: Placing the drive unit platter onto the bearing

8)
Place one of the two drive belts provided (the second is a spare) around the platter and around the motor pulley.

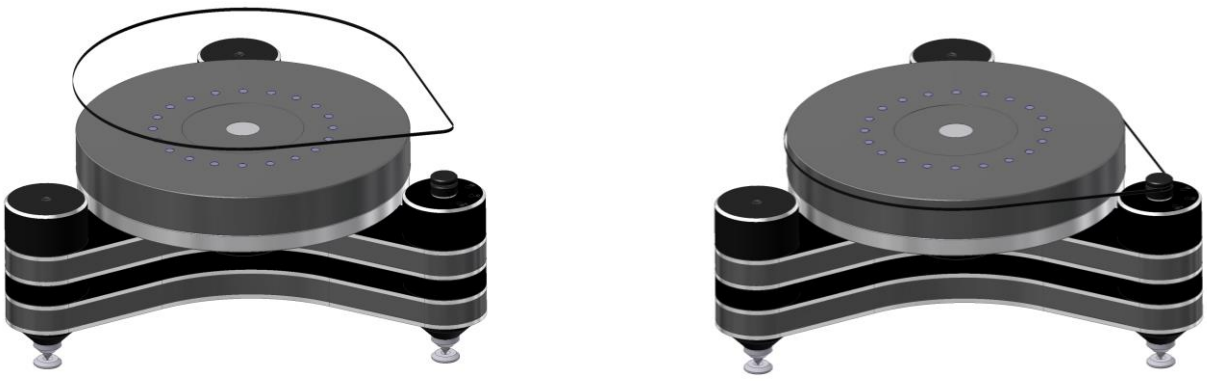

Image 7: Placement of the drive belt

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9)

Carefully take the top unit from carton 2 of 3 and place it onto the drive unit. Make sure that the protective film of the top unit is still fixed between the platter and the chassis to avoid damage.

Please note that the centering pins will easily slide into the threaded hole without jamming.

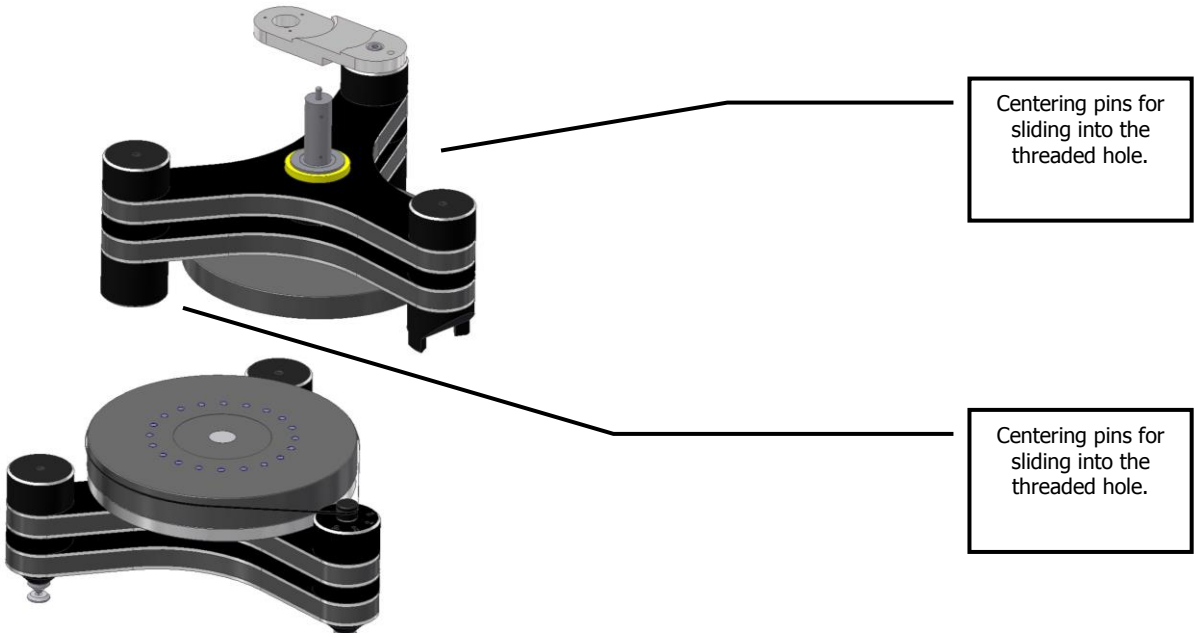

Image 8: Placement of the top unit

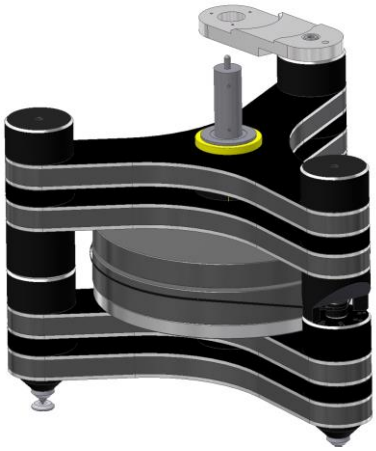

Image 9: Top unit in place

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10)
Take the stainless steel sub-platter from carton 3 and remove the protective packaging. Place the platter carefully onto the upper part of the bearing. Make sure that the protective film is still fixed in place at this point.

Next, take the platter out of its box and set it carefully onto the bearing. The side with the cut-out (for the record) should face up. Now you can carefully remove the protective film. To avoid any damage to your bearing, the platter should be at room temperature before beginning set-up (approx. 20° Celsius).
Please avoid any sideways force to avoid any damage to the ceramic bearing.

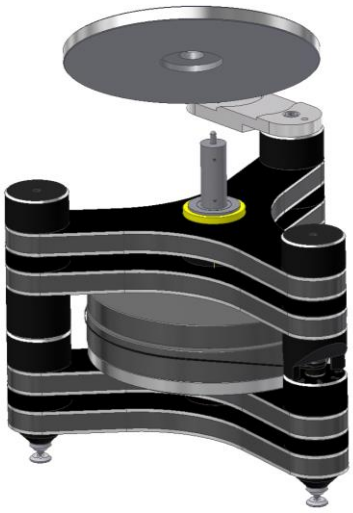

Image 10a: Setting up the stainless steel platter

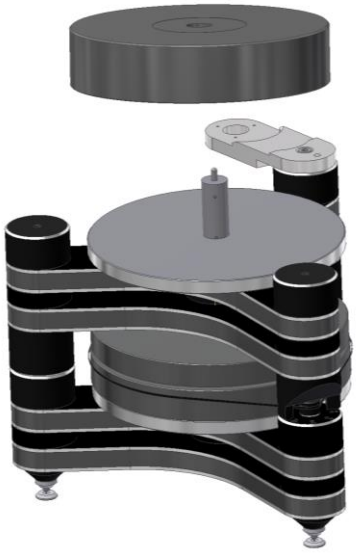

Image 10b: Seting up the platter

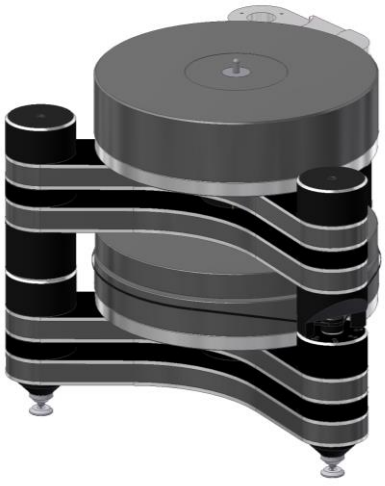

Image 11: Set-up finished

You can find various turntable adjustment accessories at www.clearaudio.de or www.analogshop.de

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11)
To install the tonearm, please see the relevant manufacturer's user manual for that tonearm.

12)
To mount and adjust a cartridge, please follow the relevant manufacturer's user manual for that cartridge.

If you have purchased your **Clearaudio** Master Innovation turntable as a package with tonearm and cartridge, you will find a Smart Level Gauge in your accessories pack, which will help you to adjust the tracking force of the cartridge:

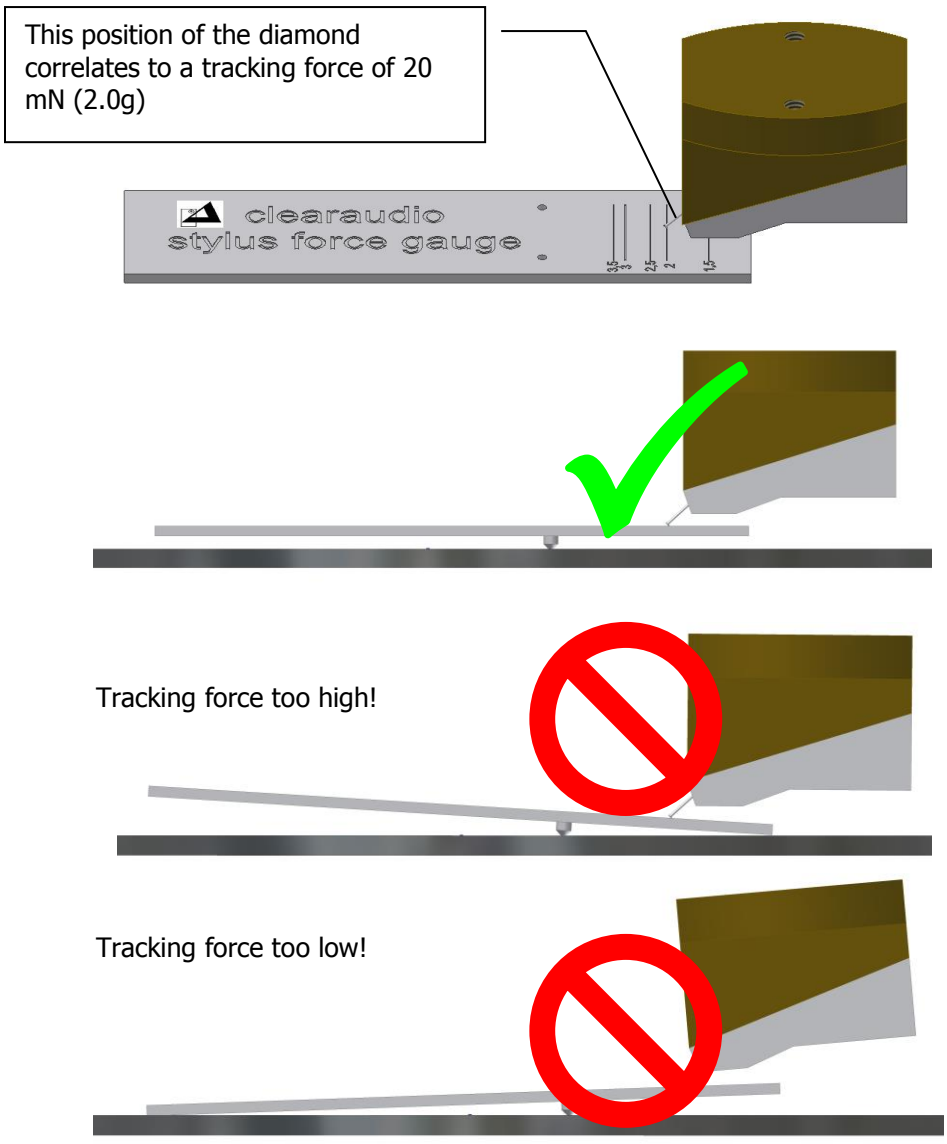
This position of the diamond correlates to a tracking force of 20 mN (2.0g)
clearaudio
stylus force gauge
Tracking force too high!
Tracking force too low!

Image 12: Using the Smart Stylus Gauge

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13)
The following final adjustment is very important.

Please ensure that your turntable rack is in a level position.

Please use the spirit level gauge provided to ensure that your Master Innovation turntable is in a level position. You can adjust each of the turntable's feet to level the turntable. You will only get the best results with your Master Innovation turntable if it is level.

Image 13a: Alignment of the turntable

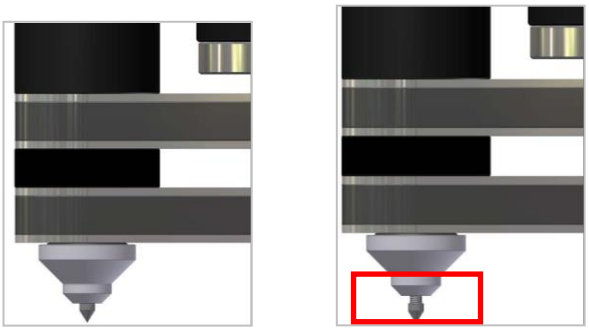

Image 13b: Adjustment of the turntable feet

14)
Please connect the mains plug to your power supply.

Image 14: Connection of power supply and motor

15)
By pushing the sensor switch, marked with "33 1/3" on the motor, the turntable starts to spin until 33 1/3 rpm is reached.
After the initial set-up, we recommend a running in period to ensure the perfect performance. To do this let the turntable spin at 33 1/3 rpm for 15 to 30 minutes.

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4. Fine adjustment of the motor

1)
The Master Innovation's motor adjustment is already pre-set at the factory. However, some small speed deviations can occur during transportation or due to dirt or dust on the sensor or the sensor ring. Please check the speed before using the turntable for the first time.

To correctly adjust the speed, put the recommended **Clearaudio** Stroboscope Test Record onto the platter and refer to the instructions provided in the Stroboscope Test Record user manual. To check the speed with highest accuracy, you may wish to use the **Clearaudio** Speed Light (ref. AC039, available at www.analogshop.de).

On the front side of your turntable there are three fine speed adjusters (see image 15 below).

- Left adjuster = setting 33 1/3 rpm
  (near turntable motor)
- Middle adjuster = setting 45 rpm
- Right adjuster = setting 78 rpm
  (near turntable bearing)

Image 15: Fine adjustment of the motor

To adjust the turntable speed at 33 1/3 rpm , take the aluminium screwdriver provided and turn the left adjuster until you have reached the right speed according to the Stroboscope Test Record (see the relevant user manual).

- Turning the adjuster counter clockwise reduces the turntable speed.
- Turning the adjuster clockwise increases the turntable speed.

You can also adjust the turntable speed for 45 rpm and 78 rpm in the same way.

Please note:

If the turntable does not reach the correct speed, the sensor or the scale ring could be dirty or dusty. To clean the sensor, take off the two platters very carefully. Clean the sensor and the scale ring with a little isopropyl alcohol and a cotton bud. Be very careful to avoid scratching the sensor or the scale ring.

Should the motor still have speed variations, please contact **Clearaudio** directly or your nearest authorized **Clearaudio** dealer.

Now you are ready to play your vinyl records.

We wish you a great deal of pleasure with your new Master Innovation turntable.

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5. Servicing and special instructions

Servicing

Any required servicing of **Clearaudio** products should be carried out by authorized personnel only. In the case of repairs, the Master Innovation turntable must be sent to your nearest authorized **Clearaudio** distributor or dealer, or directly to the **Clearaudio** factory.

Clearaudio Electronic GmbH
Spardorfer Str. 150
91054 Erlangen
Germany
Tel: +49 9131/40 300 100
www.clearaudio.de
www.analogshop.de
info@clearaudio.de

Please ensure that you send the Master Innovation turntable always and only in its original packaging. Without the original packaging, **Clearaudio's** warranty will not be valid. When repackaging the turntable, please follow in reverse the steps indicated in this manual for installation and set-up (from section 1).

Special instructions

- To benefit from the full **Clearaudio** warranty (5 years for the for the Master Innovation turntable), you must **fill out and return to Clearaudio the corresponding part of the warranty registration within two weeks of purchase**.

- For any required transportation of the Master Innovation turntable, please always remove the turntable platter and the shaft holder. Otherwise serious damage may occur. To avoid any dust getting into the bearing, the bearing hole should be covered.

- If the Master Innovation turntable is to be unused for some time, please disconnect the motor from the main power supply.

- Every two years you can lubricate the bearing of the turntable platter with the bearing oil provided; 1 or 2 drops will be enough.

- If any damage to the power cord should occur, please ensure that this is repaired only by authorized personnel. Please note: A damaged power cord must be exchanged immediately.

Caution!
Please use only non-alcoholic fluids specifically intended for acrylic to clean the Master Innovation turntable.
Otherwise damage to the material or the surface can occur. Avoid using dry cloths for cleaning due to electrostatic charging. Suitable cleaning materials are available from Clearaudio (www.analogshop.de) or from your local hi-fi dealer.

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6. Technical data

Construction principle:	Resonance-optimised chassis, belt-driven with optical speed control and magnetic no-contact drive. Housing for up to three tonearms.
Available speeds:	33 1/3 rpm / 45 rpm / 78 rpm
Drive unit:	Decoupled DC motor in a massive metal housing.
Bearing:	Main bearing: Clearaudio patented Ceramic Magnetic Bearing. Drive bearing: Inverted and polished ceramic bearing shaft, polished sintered bronze insert
Platter:	VA stainless steel platter, acrylic GS-PMMA platter, POM – platter, all with precision CNC-machined surface.
Speed variation less than:	±0.05 %
Deviance of the set value:	±0.01 %
Dimension (w x d x h):	approx. 428 mm x 380 mm x 396 mm (16.85 inch x 14.96 inch x 15.59 inch)
Weight:	Pom approx. 61,1 kg (without tonearm and packing) Acryl approx. 59,1 kg (without tonearm and packing)
Power consumption: **Max. consumption:** **Consumption in operation:** **Standby mode:** **Off mode:**	 9.5 Watt 4.1 Watt 2.4 Watt 0.0 Watt
Warranty:	5 years* (provided the warranty card is filled out correctly and sent back to **Clearaudio**)

Clearaudio *Electronic is not responsible for typographical errors in descriptions. Technical specifications are subject to change or improvement without prior notice. Product availability is as long as stocks last. Any copies of this text, including extracts, require prior written consent from* ***Clearaudio*** *Electronic GmbH, Germany.*

Version: August 2014

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To benefit from the full **Clearaudio** warranty (5 years for the for the Master Innovation turntable), you must **fill out and return to Clearaudio the corresponding part of the warranty registration within two weeks of purchase**.

The Master Innovation turntable must be returned in its original packaging. Without the original packaging, **Clearaudio's** warranty will not be valid.

ENGLISH

WARRANTY
For warranty information, contact your local Clearaudio distributor.
RETAIN YOUR PURCHASE RECEIPT
Your purchase receipt is your permanent record of purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Clearaudio.
IMPORTANT
When seeking service under warranty, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.
FOR U.K. ONLY
This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE
Pour des informations sur la garantie, contacter le distributeur local clearaudio.
CONSERVER L'ATTESTATION D'ACHAT
L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sur pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec clearaudio.
IMPORTANT
Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE
Bei Garantiefragen wenden Sie sich bitte zunächst an Ihren clearaudio-Händler.
Heben Sie Ihren Kaufbeleg gut auf.
WICHTIG!
Die Angaben auf Ihrer Quittung erlauben uns die Identifizierung Ihres Gerätes und belegen mit dem Kaufdatum die Dauer Ihrer Garantie-Ansprüche.
Für Serviceleistungen benötigen wir stets die Gerätenummer.
Diese finden Sie auf dem Typenschild auf der Rückseite des Gerätes oder auch in der beigefügten Garantie-Registrierkarte.

NEDERLANDS

GARANTIE
Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke clearaudio.
UW KWITANTIE, KASSABON E.D. BEWAREN
Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt, verwijzing bijv, in verbend met verzekering of bij correspondentie met clearaudio.
BELANGRIJK
Bij een evt, beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuurzijn voldoende bewijs.

ITALIANO

GARANZIA
L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose.
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Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati. Le spese ed i rischi di trasporto sono a carico del cliente. La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

ESPAÑOL

GARANTIA
Para obtener información acerca de la garantia póngase en contacto con su distribuidor clearaudio.
GUARDE SU RECIBO DE COMPRA
Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor, Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con clearaudio.
IMPORTANTE
Cuando solicite el servicio otorgado por la garantia el usuario tiene la responsabilidad de demonstrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

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